Worksheet 3 Solutions

```
def weird_pow(x, y):
        if x >= y:
                return 1
        else:
                return weird_pow(x+1, y) + weird_pow(x, y-1)
```

```
def rock_fact(n):
        """Return the number of different ways to order the digits in n.
        >>> rock_fact(123) # 123, 132, 213, 231, 321, 312
        6
        >>> rock_fact(4235)
        24
        >>> rock_fact(0)
        1
        >>> rock_fact(9)
        1
        """

        if n==0:
                return 1
        else:
                total, number = 0, n
                while number != 0:
                        total += rock_fact(n//10)
                        number=number//10
                return total
```